4100 SYN-nergy SPEC 10W-40

Gasoline and Diesel engine oil designed for European OEM standards

Technosynthese®

TYPE OF USE

Advanced synthetic Technosynthese® lubricant for high engine protection.
Recommended for most **European OEMs** such as MERCEDES, VAG (Volkswagen, Audi, Skoda, Seat and Cupra), STELLANTIS (Peugeot, Citroën, DS) and RENAULT.
Specifically designed for cars fitted with Gasoline and Diesel engines, naturally aspirated or turbocharged, indirect or direct injection.
Provides high engine protection and protects against the risks of LSPI (Low Speed Pre-Ignition) abnormal combustions.
Suitable for all type of fuels: leaded or unleaded Gasoline, Ethanol, LPG, Diesel and biofuels.
Compatible for catalytic converters (CAT).

PERFORMANCES

STANDARDS	ACEA A3 / B4 API PERFORMANCE SP
PERFORMANCES	MB 229.3 PSA B71 2300 RENAULT RN0710 / RN0700 VW 501 01 / 505 00

The ACEA A3/B4 performance requires an outstanding detergent/dispersant power and a better viscosity increase resistance due to soot produced by Direct Injection Diesel engines (except VAG (VW, Audi, Skoda, Seat and Cupra) unit injector pump engines that require MOTUL 8100 X-CLEAN 5W-40).

The API SP standard is fully backward compatible over API SN standard and all former API standards.
API SP lubricants provide outstanding oxidation resistance, better anti-deposits protection, better engine cleanliness, anti-wear protection and enhanced performance at cold temperature for Fuel Economy savings during the whole oil life span.
Turbocharged gasoline engines with direct injection have a certain risk of sporadic pre-ignition phenomena in the combustion chambers. This type of sporadic abnormal combustion called LSPI for Low Speed Pre-Ignition generates very high-pressure peaks in the combustion chamber that can lead to piston damages and ultimately to engine destruction. The API SP standard now fully covers this LSPI requirement in order to perfectly protect direct injection turbocharged gasoline engines.

The MB 229.3 standard is more stringent than the 229.1 in terms of aging resistance (extended drain interval: on board computer) and Fuel Economy performance: 1.2% Fuel Economy improvement compare to a 15W-40 oil reference. The MB 229.3 standard applies for most of MERCEDES Gasoline engines and the majority of MERCEDES Diesel engines without DPF (Diesel Particulate Filter).

PSA for its B71 2300 norm requires oil to be able to endure the most severe thermal constrains in order to lubricate some of their Gasoline engines and some Diesel engines without DPF.

RENAULT has developed RN0700 standard for oils able to provide a high thermal stability and insure an outstanding resistance at high temperatures.
In general, RN0700 standard applies for all Naturally Aspirated Gasoline engines (except Renault Sport) of RENAULT Group (RENAULT, DACIA and SAMSUNG). The RN0700 standard applies also to

all RENAULT vehicles fitted with Diesel engine 1.5 dCi without DPF < 100 HP with oil drain interval of 20 000 km or 1 year. Before use, always refer to the owner manual or handbook of the vehicle.

The Renault RN0710 standard applies to all turbocharged Gasoline, Renault Sport and Diesel without DPF engines of RENAULT Group (Renault, Dacia, Samsung).
The RN0710 specification does not apply to RENAULT Diesel cars fitted with 1.5L dCi engines without DPF having less than 100 hp output and 20 000 km or 1-year oil drain interval which specifically require a RN0700 lubricant. For the 2.2L dCi with DPF, use only an approved RN0710 lubricant, not a RN0720.

The reinforced synthetic Technosynthese® base stock of MOTUL 4100 SYN-nergy SPEC 10W-40 provides very high lubricating power which reduces frictions, decreases the volatility and ensures resistance to very high temperatures reached in modern engines in order to perfectly meet numerous manufacturer specifications.

RECOMMENDATIONS

Drain interval: according to manufacturers' recommendations and tune to your own use.
Can be mixed with synthetic or mineral oils.
Before use or if in doubt, always refer to the owner manual or handbook of the vehicle.

PROPERTIES

Viscosity grade	SAE J 300	**10W-40**
Density at 20°C (68°F)	ASTM D1298	0.860
Viscosity at 40°C (104°F)	ASTM D445	98.6 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	15.0 mm²/s
Viscosity Index	ASTM D2270	158
Pour point	ASTM D97	-36°C
Flash point	ASTM D92	210°C
TBN	ASTM D2896	10.5 mg KOH/g